

Associate of Science in Engineering Technology Program Code 2207

Program Description: The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, medical, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the three specializations; electronics, alternative energy, and biomedical systems with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.

Career Pathway: Industry, Manufacturing, Construction & Transportation (IMCT)

Program Entrance Requirements: High School Diploma or GED

Additional Program Information: You will earn Technical Certificates related to your program of study as you earn your AA, AS, AAS or Bachelor's degree.

Related Industry Certifications: The 18 credit hour technical core has also been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Certified Production Technician.

Location(s): While most of the program can be completed at any BC location, the Engineering Technology core courses are only offered at North Campus. Please consult the course schedule for specific semester locations.

Contact information: Program contact information can be found at <http://www.broward.edu/academics/programs/engineering/Pages/default.aspx>

Related Programs at Broward College:

Alternative Energy Systems Specialist Technical Certificate (6325)

Electronics Aide Technical Certificate (6322)

Engineering Technology Support Specialist Technical Certificate (6314)

General Education Credit Hours	18	ETI1420	Process and Materials	3	
ENC1101	Composition I	3	ETI1701	Safety	3
PHY1001	Applied Physics I	3	ETM1010C	Measurement and Instrumentation	3
Humanities		3			
Mathematics		3			
Social Science		3			
Speech Communication		3			
MSSC Core Requirements Credit Hours	18		Technical Core Requirements Credit Hours*	15	
EET1084C	Introduction to Electronics	3	EET1015C	DC Circuits	3
ETD1320	Basic Introduction to CAD	3	EET1025C	AC Circuits	3
ETI110C	Intro to Quality Assurance	3	CET1114C	Digital Techniques	3
			EET1141C	Linear Techniques I	3
			CET1117C	Microprocessors I	3

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Specialized Courses Credit Hours **9**
(choose one group of courses)

Biomedical Specialization

HSC1531	Medical Terminology	3
ETS2436C	Biomedical Instrumentation	3
ETS2940	Biomedical Engineering Technology Internship	3

OR

Electronics Specialization

EET2142C	Linear Techniques II	3
EET2326C	Electronic Communications	3
ETS2542C	Programmable Logic Controllers (L)	3

OR

Alternative Energy Specialization

ETP2402C	Introduction to Solar Photovoltaic (PV) Systems	3
ETP2410C	Installation of Solar Photovoltaic (PV) Systems	3
ETS2542C	Programmable Logic Controllers (L)	3

Total Program Credits **60**

Notes:

*Student may have to take MAT1033 or STA1001 based on placement score. The student's eligibility for Federal Financial Aid for the MAT1033/STA1001 course may be limited.

Students who complete the AS in Engineering Technology program will successfully meet the college's Computer Competency requirement.

- Many courses have specific pre-requisite and co-requisite requirements that must be followed. Students are encouraged to consult the Course Information Table for a detailed list of all requisite requirements.

Students are strongly encouraged to meet with an advisor to create an educational plan.